

High Performance Data Transfer and Monitoring for RHIC and USATLAS

Modern nuclear and high energy physics experiments yield large amounts of data and thus require efficient and high capacity storage and transfer. BNL, the hosting site for RHIC experiments and the US ATLAS Tier 1 center, plays a pivotal role in transferring to and from other sites in the US and around the world for data distribution and processing. Each component in the infrastructure from data acquisition system to local analysis facility must be monitored, tested, and tuned to transfer such a sheer volume of data often over long distances. Ultimate performance can be reached by performing hardware optimization, TCP tuning, transfer application tuning and network architecture adjustments



